

IN THE CLAIMS

Claim 1 has been amended as follows:

1. (Currently Amended) A nuclear magnetic resonance antenna comprising:

a plurality of at least five antenna elements disposed in a plane, each antenna element having an element beginning in said plane and an element end in said plane;

said antenna elements being disposed relative to a center axis so as to radiate from the respective element beginnings to the respective element ends outwardly in a spoke-like fashion to allow a radially directed current flow in each antenna element between the element end thereof and the element beginning thereof, and exhibiting cyclical symmetry from antenna element to antenna element;

said antenna elements being at least magnetically coupled with each other in said antenna.

2. (Original) A nuclear magnetic resonance antenna as claimed in claim 1, wherein the respective element beginnings and the respective element ends are connected to ground.

3. (Original) A nuclear magnetic resonance antenna as claimed in claim 1 wherein said antenna elements are electrically coupled to each other.

4. (Original) A nuclear magnetic resonance antenna as claimed in claim 3 wherein the respective element beginnings are electrically connected to each other via a ring-shaped connecting element.

5. (Original) A nuclear magnetic resonance antenna as claimed in claim 3 wherein the respective element ends are electrically connected to each other via a ring-shaped connecting element.

6. (Original) A nuclear magnetic resonance antenna as claimed in claim 3 wherein the respective element beginnings are electrically connected to each other via a first ring-shaped connecting element and wherein the respective element ends are electrically connected to each other via a second ring-shaped connecting element.

7. (Original) A nuclear magnetic resonance antenna as claimed in claim 1, wherein each of said antenna elements has two branching element ends.

8. (Cancelled).

9. (Currently Amended) A nuclear magnetic resonance antenna as claimed in claim 1 & wherein the respective antenna elements are linear.

10. (Cancelled).

11. (Currently Amended) A nuclear magnetic resonance antenna as claimed in claim 14 & further comprising a grounding plate disposed parallel to said element beginning plane and said element end plane, and said common point being disposed in said grounding plate.

12. (Currently Amended) A nuclear magnetic resonance antenna as claimed in claim 14 & further comprising a grounding plate disposed parallel to said element beginning plane and said element end plane.

13. (Currently Amended) A nuclear magnetic resonance antenna as claimed in claim 1 wherein said plurality is divisible ~~for~~ by four.

14. (New) A nuclear magnetic resonance antenna comprising:

a plurality of at least five antenna elements, each antenna element having an element beginning and an element end, the respective element beginnings defining an element beginning plane and the respective elements ends defining an element end plane, said element beginning plane and said element end plane being parallel to and spaced from each other;